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PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of: EHLERT et al.

Attorney Docket No.: NSC1P202/P04892

Application No.: 10/051,984

Examiner: ISHWAR (I.B.) PATEL

Filed: January 15, 2002

Group: 2827

Title: MATERIALS AND STRUCTURE FOR  
A HIGH RELIABILITY BGA CONNECTION  
BETWEEN LTCC AND PB BOARDS

**CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail to: Commissioner for Patents, Washington, DC 20231 on February 20, 2003.

Signed: 

Tara Hayden

**AMENDMENT TRANSMITTAL**

Commissioner for Patents  
Washington, DC 20231

Sir:


Transmitted herewith is an Amendment in the above-identified application.

The fee has been calculated as shown below.

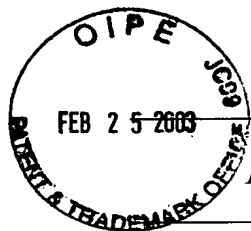
|  | Claims<br>After<br>Amendment |       | Highest<br>Previously<br>Paid For | Present<br>Extra | Small Entity<br>Rate Fee | Large Entity<br>Rate Fee |
|--|------------------------------|-------|-----------------------------------|------------------|--------------------------|--------------------------|
| Total Claims   | 21                           | MINUS | 24                                | 00               | x 9 =                    | x 18 =                   |
| Independent<br>Claims  | 03                           | MINUS | 04                                | 00               | x 42 =                   | x 84 =                   |
| Multiple Dependent Claim Present and Fee Not Previously Paid |                              |       |                                   |                  | \$140.00                 | \$280.00                 |
| Total  |                              |       |                                   |                  | \$                       | \$                       |

- ☐ Applicant(s) hereby petition for a \_\_\_\_\_ month extension(s) of time to respond to the aforementioned Office Action.
- ☒ Applicant(s) believe that no (additional) Extension of Time is required; however, if it is determined that such an extension is required, Applicant(s) hereby petition that such an extension be granted and authorize the Commissioner to charge the required fees for an Extension of Time under 37 CFR 1.136 to Deposit Account No. 500388.
- ☐ Enclosed is our Check No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_ to cover the additional claim fee and/or extension of time fees.
- ☒ Please charge the required fees, or any additional fees required to facilitate filing the enclosed response, to Deposit Account No. 500388 (Order No. NSC1P202).

Respectfully submitted,  
BEYER WEAVER & THOMAS, LLP

  
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Berkeley, CA 94704-0778



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Printed Name: Tara Hayden

Signed: 

AMENDMENT A

Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir or Madame:

In response to the Office Action dated November 21, 2002, a response to which is due February 21, 2003, please enter the following amendments and consider the following remarks:

IN THE DRAWINGS

Please add FIG. 5 and amend FIGS. 1, 2A, 2B, and 3 as indicated in red in the enclosed substitute sheets of drawings. A separate letter to the Official Draftsman is enclosed.

IN THE SPECIFICATION

On page 4, line 15, add the following paragraph:

FIG. 5 illustrates a side plan, cross-sectional view of a portion of the bottom ceramic layer of a multi-layered LTCC module according to another embodiment of the present invention.